

WHAT IS CLAIMED IS:

1. An AAL2 switch for multicast in a mobile communication system, comprising:

a plurality of receiver circuits each receiving and demultiplexing an AAL2 packet for converting into at least one CPS packet;

a plurality of memories that store said at least one CPS packet; and

a plurality of transmitter circuits each coupled to the plurality of memories that search the plurality of memories, convert the searched CPS packet into an AAL2 packet by multiplexing, and transmit the AAL2 packet.

2. The AAL2 switch for multicast of claim 1, comprising:

a first table coupled to each of the plurality of receiver circuits, for managing VPVC, CID and routing information; and

a second table coupled to each of the plurality of transmitter circuits, for managing storing conversion information including the VPVC and the CID.

3. The AAL2 switch for multicast of claim 1, wherein a new VPVC and a routing information for the transmitted AAL2 packet are allocated based on a VPVC and a CID in the received AAL2 packet.

4. The AAL2 switch for multicast of claim 3, wherein said at least one CPS packet and a new VPVC are stored according to the routing information.

5. The AAL2 switch for multicast of claim 1, wherein each of the memories is divided into storage areas each corresponding one of a plurality of output ports.

6. The AAL2 switch for multicast of claim 5, wherein each of the storing areas includes a memory status field, a copy port field, and a port area.

7. The AAL2 switch for multicast of claim 6, wherein the port area is included equal in number to the plurality of output ports.

8. The AAL2 switch for multicast of claim 6, wherein the memory status field can discriminate whether the CPS packet is stored.

9. The AAL2 switch for multicast of claim 6, wherein the copy port field can discriminate an output port to which said at least one CPS packet is designated.

10. The AAL2 switch for multicast of claim 1, wherein the transmitter circuits each performs the searching process according to values set in a memory status field in the plurality of memories.

11. The AAL2 switch for multicast of claim 10, wherein the transmitter circuits perform the searching process according to values set at a copy port field.

12. The AAL2 switch for multicast of claim 1, wherein when said at least one CPS packet is searched, the transmitter circuits generate a new CID for the searched CPS packet by using a new VPVC.

13. A switching method of an AAL2 switch for multicast in a mobile communication system, the method comprising:

converting a received AAL2 packet into a CPS packet by demultiplexing the received AAL2 packet;

generating a new VPVC and routing information based on VPVC and CID in the received AAL2 packet;

storing the CPS packet and the new VPVC according to the routing information in at least one of a plurality of storage areas in a memory;

extracting the CPS packet by searching the plurality of storage areas; and

transmitting an AAL2 packet by converting the extracted CPS packet into an AAL2 packet and transmitting the AAL2 packet.

14. The switching method of claim 13, wherein the converting through transmitting steps are repeatedly performed whenever the received AAL2 packet is inputted.

15. The switching method of claim 13, wherein a memory status field of the storage area indicates whether the CPS packet is stored.

16. The switching method of claim 13, an output port where the CPS packet is sent is indicated in a copy port field of the storage area.

17. The switching method of claim 13, wherein the CPS packet and the new VPVC information is stored in at least a port area of the storage area.

18. The switching method of claim 13, wherein if the CPS packet is extracted, a new CID is generated by using a new VPVC.

19. A switching method of an AAL switch for multicast in a mobile communication system, the method comprising:

converting a received AAL2 packet into a CPS packet by demultiplexing the received AAL packet;

storing the CPS packet according to a routing information;

converting the stored CPS packet into an AAL packet; and

transmitting the AAL packet.

20. The switching method of claim 19, wherein the routing information is generated based on a VPVC and a CID of the received AAL packet.

21. The switching method of claim 20, wherein a new VPVC is generated and stored based on the VPVC and the CID.

22. The switching method of claim 19, further comprising periodically searching for a memory status field and a copy port field corresponding to each of a plurality of output ports.

23. The switching method of claim 22, wherein the converting the stored CPS packet into the AAL packet extracts the corresponding to an output port where the CPS packet is allocated by the periodically searching.